

REMARKS

In view of the foregoing amendments and the following remarks, reconsideration of the present patent application is respectfully requested.

The independent claim 1 is amended for further distinguishing the present invention from the cited references. All of the amendments can be supported by the specification and drawings of the present invention, and therefore there is no new matter added therein.

Rejection under 35 U.S.C. §112

Since Claim 5 has been incorporated into Claim 1, the arrangement of the adhesive tape relative to the core structure has been clarified in Claim 1 that the adhesive tape is wrapped around an outer surface of the core after the first coil and the second coil are wound around the core, which is supported by Fig. 2(d).

Rejection under 35 U.S.C. §103

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown (US 3,675,176) in view of De Graaf (US 6,492,893), and Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brown (US 3,675,176) in view of De Graaf (US 6,492,893), and further in view of Sylvester (US Re 33,345).

Brown discloses an electrical transformer including a toroidal core 5 and a plurality of bi-filar center-tapped windings 14 wound around the core. However, Brown does not disclose an adhesive tape wrapped around an outer surface of the core. In other words, the windings in Brown's device cannot be further fixed by the adhesive tape, while in the present invention, the coils can be further fixed by the adhesive since the winding structure of the present invention includes the adhesive tape which is directly adhered on the coils wound around the core. Therefore, the present invention is distinct from Brown's patent and cannot be achieved through Brown's teaching.

De Graaf discloses a core having a gap and the manufacturing method thereof. However, Graaf does not disclose how the coils are wound around the core. Also, De Graaf does not disclose an adhesive tape wrapped around an outer surface of the core. Therefore, the present invention is totally distinct from De Graaf's patent, and the

winding structure of the present invention cannot be achieved through De Graff's teaching.

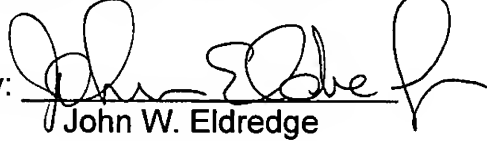
Sylvester discloses secondary winding configurations and methods for toroid transformers. The toroid transformer includes a toroidal core, a plurality of filaments wound around the core, and an insulating tape wrapped around the core. Although Sylvester has disclosed a tape wrapped around the core, the effects and the structural features of the tape in Sylvester's patent is different from that of the present invention. In Sylvester's patent, as described in column 4, lines 12-25, the adhesive layers of two tapes are faced and bonded to each other to contain four filaments therebetween, so as to maintain and assure the equal spacing of the filaments relative to each other without crossover. However, in the present invention, the adhesive tape is directly adhered on the first coil and the second coil which have been wound around the core so as to further fix the coils. In addition, the tape in Sylvester's patent is wrapped around the whole core, i.e. including the inner surface and the outer surface of the core. However, the tape in the present invention is wrapped only around the outer surface of the core. Hence, the structural features and the effects of the tapes in Sylvester's patent and the present invention are apparently different. Therefore, the present invention is distinct from Sylvester's patent, and the winding structure of the present invention cannot be achieved through Sylvester's teaching.

In conclusion, none of Brown's, De Graaf's and Sylvester's patents has disclosed an adhesive tape wrapped around an outer surface of the core and directly adhered on the coils wound around the core so as to further fix the coils. Therefore, the Applicant respectfully submits that none of the references cited by the Examiner, or any combination thereof, render the amended Claim 1 obvious. The present invention is patentable over the cited references, and reconsideration and allowance of the present patent application are earnestly solicited at an early date.

Reconsideration and an early allowance are therefore respectfully requested.

Respectfully submitted,
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By:

A handwritten signature in black ink, appearing to read "John W. Eldredge", written over a horizontal line.

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